

SOLAR REFLECTIVE SHINGLES



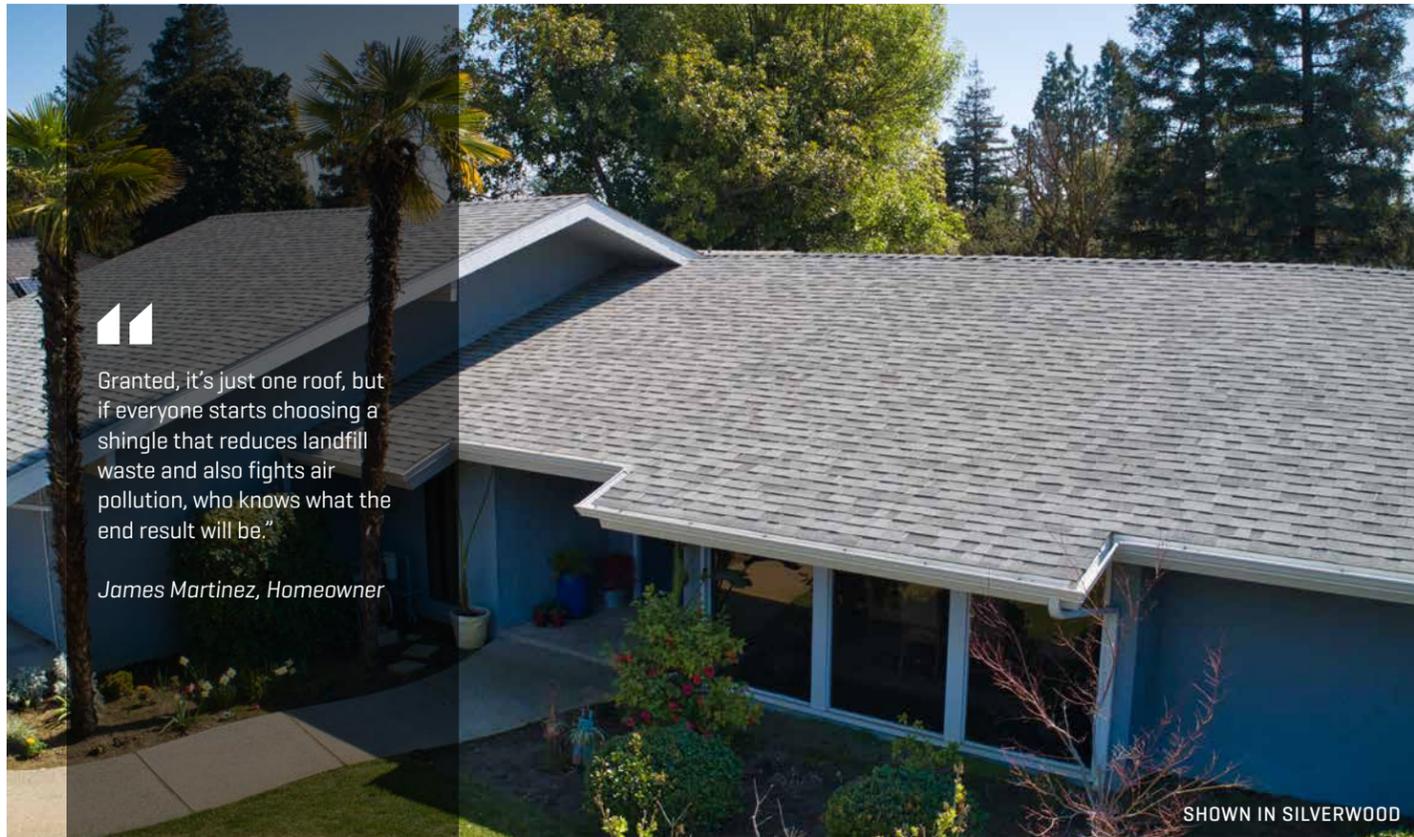
SHOWN IN BURLWOOD



Solar Reflective Shingles

Performance Engineered, Sustainably Designed

Aging & Impact Resistant



“Granted, it’s just one roof, but if everyone starts choosing a shingle that reduces landfill waste and also fights air pollution, who knows what the end result will be.”

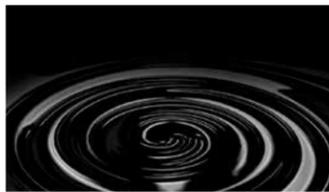
James Martinez, Homeowner

Made with NEX® Polymer Modified [Rubberized] Asphalt Technology

Asphalt Weathering, Rubber Tough, Environmentally Conscious

Patented NEX® Polymer Modified [SBS Rubberized] Asphalt Technology enhances asphalt’s suppleness and stickiness to resist thermal dry-out and aging, and better adhere granules, while adding **rubberlike durability and flex for superior impact resistance, granule adhesion, all-weather resilience, and aging longevity.**

[THE NEX® FORMULA]



High-Grade Asphalt
Waterproofing & Granule Adhesion



Synthetic Rubber Polymers (SBS)
Strength, Aging, Flexibility

+



Upcycled Rubber Polymers
Durability, Aging, Sustainability



Upcycled Plastic Polymers
Strength & Sustainability



Sustainable Performance™

Superior Performance & Better for the Environment

CRAFTSMANSHIP

Up to 2X Larger Nailing Area
Up to 50% More Adhesive Bonds
2X Rain Seals

PERFORMANCE

Up to 25% Greater Tear Strength
Up to 65% Greater Granule Adhesion
Up to Class 4 Impact Rating

SUSTAINABILITY (PER ROOF)¹

Upcycles ~4 Rubber Tires
Upcycles ~2,900 Plastic Bags
Cleans Smog Pollution like ~2 Trees

Color Options

See shingle colors on a roof, or your roof, at www.malarkeyroofing.com/roof-designer.

Distributed from South Gate, CA **[E]** Ecoasis® **[H]** Highlander® **[V]** Vista®

CRRC rated colors can be used to comply with California Energy Code [CEC] Title 24, Part 6 Cool Roof Requirements.

Colors with an SRI of 20 or greater can also be used to comply with Los Angeles County, California Title 31 Cool Roof Requirements.

TITLE 24 TITLE 31		TITLE 24 TITLE 31		CRRC SOLAR REFLECTANCE CHART		
GOLDEN AMBER [H]		IVORY MIST [H]		HIGHLANDER*	SRI (3 YEAR)	CRRC PRODUCT ID
GOLDEN AMBER [H]		IVORY MIST [H]		GOLDEN AMBER	21	0850-0024
SIENNA BLEND [H, V]		SILVERWOOD [H, V]		IVORY MIST	26	0850-0055
SIENNA BLEND [H, V]		SILVERWOOD [H, V]		SIENNA BLEND	20	0850-0025
BLACK DUSK [E]		COASTAL GREY [E]		SILVERWOOD	21	0850-0065
DESERT BRUSH [E]		PACIFIC DRIFT [E]		VISTA*		
DESERT BRUSH [E]		PACIFIC DRIFT [E]		SIENNA BLEND	16*	0850-0049
BURLWOOD [E]		MOONLIT BLACK [E]		SILVERWOOD	20	0850-0051
BURLWOOD [E]		MOONLIT BLACK [E]		ECOASIS*		
RIVERSTONE GREY [E]		WILLOW WOOD [E]		BLACK DUSK	19**	0850-0071
RIVERSTONE GREY [E]		WILLOW WOOD [E]		COASTAL GREY	17**	0850-0068
RIVERSTONE GREY [E]		WILLOW WOOD [E]		DESERT BRUSH	17**	0850-0069
RIVERSTONE GREY [E]		WILLOW WOOD [E]		PACIFIC DRIFT	19**	0850-0070
RIVERSTONE GREY [E]		WILLOW WOOD [E]		BURLWOOD	22	0850-0057
RIVERSTONE GREY [E]		WILLOW WOOD [E]		MOONLIT BLACK	20	0850-0066
RIVERSTONE GREY [E]		WILLOW WOOD [E]		RIVERSTONE GREY	20**	0850-0067
RIVERSTONE GREY [E]		WILLOW WOOD [E]		WILLOW WOOD	20	0850-0028

* Solar reflectance data calculated using CRRC Rapid Ratings.
** Solar reflectance data calculated using the California Energy Commission SRI Calculation Worksheet.

Made Better to Last Longer, & More Sustainable

Malarkey shingles are made with our patented **NEX® Polymer Modified [SBS Rubberized] Asphalt**, an innovative technology that infuses rubber and plastic polymers to strengthen the asphalt core of the shingle for superior impact resistance, granule adhesion, all-weather resilience, and aging longevity.

Malarkey solar reflective shingles are also sustainable. Upcycled polymers from used tires and plastic bags improve durability and aging resistance, while helping reduce landfill waste. Smog-reducing granules help clean the air of emission pollutants. And solar reflective granules help cool the roof.

Sustainability without sacrificing performance.



🌿 NEX® RUBBERIZED ASPHALT

Asphalt core of shingle is strengthened with SBS rubber polymers for superior all-weather resilience and aging resistance, then formed around a fiberglass mat, for **up to 25% greater tear strength than the industry standard (ASTM D3462), and up to Class 4 impact rating (highest rating possible)**. Insurance discounts may apply.

🌿 UPCYCLED RUBBER & PLASTIC

Polymers from recycled rubber and plastic improve shingle durability and aging resistance, while helping reduce landfill waste. **Each average-sized roof (30 squares) upcycles the equivalent of ~4 rubber tires and ~2,900 plastic grocery bags.**¹

🌿 EXTRA, RUBBERIZED RAIN SEAL

2X the rain seals of standard shingles, rubberized with SEBS rubber polymers to improve adhesion, resist dry-out, and provide extra leak protection.

🌿 EXTRA, RUBBERIZED LAMINATE BOND

Up to 50% more laminate bonds than standard shingles, rubberized with SEBS rubber polymers to improve adhesion, resist dry-out, and provide extra protection against shingle delamination.

🌿 LARGE, RUBBERIZED WIND SEAL

Large wind seal, rubberized with SEBS rubber polymers to improve seal-down adhesion and resist dry-out, helps prevent wind from lifting the shingle up and off the roof. **Wind warranty up to 130 mph.**

It takes over 6,000 nails to secure a roof. Even one out of place can cause a leak.

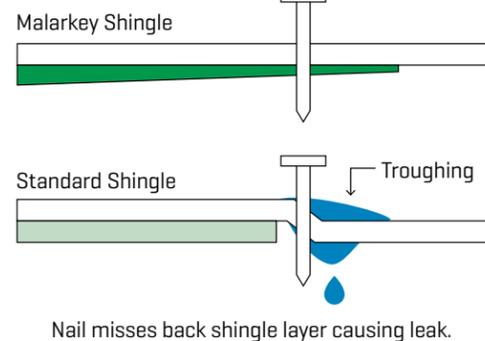
🌿 THE ZONE® LARGER NAILING AREA

Up to 2X larger nailing area dramatically improves installation speed and accuracy, and helps ensure nails secure BOTH shingle layers – critical for preventing blow-offs.

🌿 LONGER & TAPERED BACKING SHIM

Longer, tapered shingle backing helps ensure nails penetrate BOTH shingle layers (critical for preventing blow-offs), promotes water flow, and helps prevent rain from blowing under the shingle and pooling (troughing), waiting to leak down a misplaced nail.

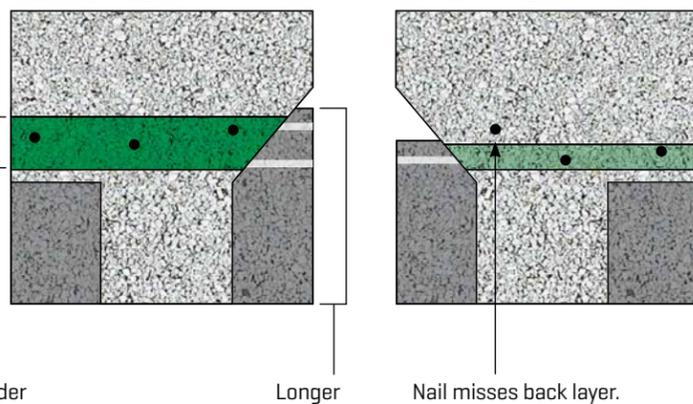
Side View:



Top View:

Malarkey Shingle

Standard Shingle



Wider

Longer

Nail misses back layer.

Nail misses back shingle layer causing leak.



🌿 CERAMIC-COATED GRANULES

3M™ Roofing Granules add color vibrancy and protect the shingle from hail impact and UV aging, while NEX® Rubberized Asphalt dramatically improves granule retention. **Up to 65% greater granule adhesion than the industry standard (ASTM D3462).**



🌿 SMOG-REDUCING GRANULES

Blend of photocatalytic 3M™ Smog-Reducing Granules harness sunlight to actively clean the air of emission pollutants. **Each average-sized roof (30 squares) has the smog-fighting potential of ~2 trees.**²



🌿 SOLAR REFLECTIVE GRANULES

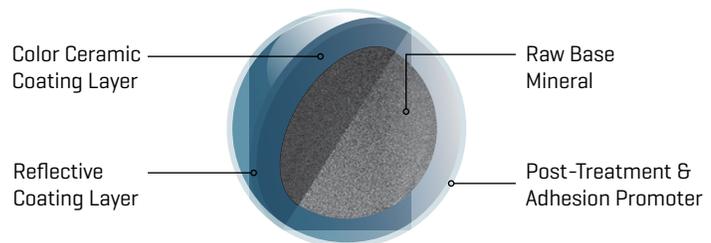
Light colors naturally **reflect the sun's rays to reduce heat**. For darker colors, 3M™ Cool Roofing Granules employ a special coating that enhances solar reflectivity [Ecoasis® shingle line].

	VERY GOOD	BETTER
Solar Reflective Architectural Shingle Lines Comparison Chart	Highlander® Ecoasis®	Vista®
Rubberized Asphalt Technology	NEX ⁺	NEX ⁺
Impact Rating [Class 4 Highest]	Class 3	Class 4
Fire Rating [Class A Highest]	Class A	Class A
Tear Strength*	+10%	+25%
Thickness		+10%
Sustainability [assumes roof of 30 squares]		
~Upcycled Rubber Tires	4	5
~Upcycled Plastic Bags	2,900	3,200
~Trees 'Planted' ²	2	2
Cost	\$	\$\$
Warranties*:		
Shingle Warranty	Limited Lifetime	Limited Lifetime
Non-Prorated Period [years]	10	15
Algae Warranty	NA	NA
Standard Wind Warranty [mph / kph / years]	110 / 177 / 15	110 / 177 / 15
Enhanced Wind Warranty [mph / kph / years]	130 / 209 / 15	130 / 209 / 15

*Versus standard shingles, as measured per ASTM D3462.

3M™ COOL ROOFING GRANULES (SOLAR REFLECTIVE)

Shingles are assigned an SRI (Solar Reflective Index) rating by the Cool Roof Rating Council (CRRC). The higher the SRI, the greater the reflectivity. CRRC rated colors of at least SRI 16 can be used to comply with California Energy Code (CEC) Title 24, Part 6 Cool Roof Requirements. SRIs of 20 or more can also be used to comply with Los Angeles County, California Title 31 Cool Roof Requirements.



¹ Assumes roof of 30 squares using Ecoasis® shingles.

² Assumes roof of 30 squares. Source: Lawrence Berkeley National Laboratory and 3M.

TEST COMPLIANCE: All Shingles - ASTM D7158 Class H, ASTM D3462, ASTM D3161 Class F, ASTM D3018 Type I, ASTM E108 Class A Fire Rating, CSA A123.5, ICC Approval - ESR-3150, and ICC-ES AC438. UL 2218 Class 4 (Vista® line) and UL 2218 Class 3 (Ecoasis® and Highlander® lines). CRRC-rated colors can be used to comply with California Energy Code [CEC] Title 24, Part 6 Cool Roof Requirements (Ecoasis® Black Dusk, Burlwood, Coastal Grey, Desert Brush, Moonlit Black, Pacific Drift, Riverstone Grey, and Willow Wood, Highlander® Golden Amber, Ivory Mist, Sienna Blend, and Silverwood, and Vista® Sienna Blend and Silverwood). Ecoasis® Burlwood, Moonlit Black, Riverstone Grey, and Willow Wood, Highlander® Golden Amber, Ivory Mist, Sienna Blend, and Silverwood, and Vista® Silverwood shingles can also be used to comply with Los Angeles County, California Title 31 Cool Roof Requirements.

DISCLAIMER: Photographs of shingles may not accurately represent their true color or the variations of color blends that will appear on the roof. **Before installation, five or six shingles should be laid out and reviewed for desired color.** Colors and specifications subject to change without notice. Shingle colors not available in all regions or product lines.

+ For complete warranty information, please reference Malarkey's **Shingle and Accessory Warranty** available at www.malarkeyroofing.com/warranties.

This version supersedes all previous versions. Rev. 07/24

www.malarkeyroofing.com



MEETS CSA A123.5 STANDARDS

